

What is claimed is:

1           1.       A system for providing diagnosis and monitoring of congestive  
2 heart failure for use in automated patient care, comprising:  
3           a comparison module comparing at least one recorded physiological  
4 measure to at least one other recorded physiological measure on a substantially  
5 regular basis to quantify a change in patient pathophysiological status for  
6 equivalent patient information; and  
7           an analysis module evaluating an absence, an onset, a progression, a  
8 regression, and a status quo of congestive heart failure dependent upon the change  
9 in patient pathophysiological status.

1           2.       A system according to Claim 1, further comprising:  
2           a diagnostic module comparing the change in patient pathophysiological  
3 status to an indicator threshold corresponding to a quantifiable physiological  
4 measure indicative of congestive heart failure.

1           3.       A system according to Claim 1, further comprising:  
2           a database module retrieving the at least one recorded physiological  
3 measure and the at least one other recorded physiological measure from  
4 monitoring sets stored in a database.

1           4.       A system according to Claim 3, further comprising:  
2           a server system collecting the at least one recorded physiological measure  
3 and the at least one other recorded physiological measure into each monitoring set  
4 recorded on a substantially continuous basis or derived therefrom.

1           5.       A system according to Claim 4, further comprising:  
2           at least one of an implantable medical device and an external medical  
3 device recording the at least one recorded physiological measure and the at least  
4 one other recorded physiological measure.

1           6.       A system according to Claim 1, further comprising:

2 the analysis module evaluating an absence, an onset, a progression, a  
3 regression, and a status quo of diseases other than congestive heart failure  
4 dependent upon the change in patient pathophysiological status.

1 7. A system according to Claim 1, further comprising:  
2 a diagnostic module comparing at least one recorded quality of life  
3 measure to at least one other recorded quality of life measure on a substantially  
4 regular basis to qualify a change in patient pathophysiological status.

1 8. A system according to Claim 1, further comprising:  
2 a stored stickiness indicator defined for at least one physiological measure  
3 corresponding to a temporal boundary on one of patient diagnosis and treatment;  
4 a diagnostic module timing each change in patient pathophysiological  
5 status for the equivalent patient information and determining one of a revised  
6 patient diagnosis and treatment responsive to each change in patient  
7 pathophysiological status with a timing exceeding the stickiness indicator.

1 9. A system according to Claim 1, further comprising:  
2 a diagnostic module comparing the change in patient pathophysiological  
3 status to a reference baseline comprising recorded physiological measures  
4 recorded during an initial time period.

1 10. A system according to Claim 1, further comprising:  
2 a diagnostic module comparing the change in patient pathophysiological  
3 status to equivalent patient information from at least one of an individual patient,  
4 a peer group, and a overall patient population.

1 11. A method for providing diagnosis and monitoring of congestive  
2 heart failure for use in automated patient care, comprising:  
3 comparing at least one recorded physiological measure to at least one  
4 other recorded physiological measure on a substantially regular basis to quantify a  
5 change in patient pathophysiological status for equivalent patient information; and



1           18.     A method according to Claim 11, further comprising:  
2           defining a stickiness indicator for at least one physiological measure  
3     corresponding to a temporal boundary on one of patient diagnosis and treatment;  
4           timing each change in patient pathophysiological status for the equivalent  
5     patient information; and  
6           determining one of a revised patient diagnosis and treatment responsive to  
7     each change in patient pathophysiological status with a timing exceeding the  
8     stickiness indicator.

1           19.     A method according to Claim 11, further comprising:  
2           comparing the change in patient pathophysiological status to a reference  
3     baseline comprising recorded physiological measures recorded during an initial  
4     time period.

1           20.     A method according to Claim 11, further comprising:  
2           comparing the change in patient pathophysiological status to equivalent  
3     patient information from at least one of an individual patient, a peer group, and a  
4     overall patient population.

1           21.     A computer-readable storage medium for a device holding code for  
2     performing the method according to Claims 11, 12, 13, 14, 15, 16, 17, 18, 19, or  
3     20.

1           22.     A system for analyzing a patient status for congestive heart failure  
2     for use in automated patient care, comprising:  
3           a server system receiving a set of one or more physiological measures  
4     relating to patient information recorded on a substantially continuous basis or  
5     derived therefrom;  
6           a database module storing the physiological measures set into a patient  
7     care record for an individual patient into a database; and

8 an analyzer analyzing one or more of the physiological measures in the  
9 physiological measures set relative to one or more other physiological measures  
10 to determine a pathophysiology indicating an absence, an onset, a progression, a  
11 regression, and a status quo of congestive heart failure.

1 23. A system according to Claim 22, further comprising:  
2 the analyzer analyzing the physiological measures in the physiological  
3 measures set relative to the other physiological measures to determine a  
4 pathophysiology indicating an absence, an onset, a progression, a regression, and  
5 a status quo of diseases other than congestive heart failure.

1 24. A system according to Claim 22, further comprising:  
2 the server system receiving a set of one or more quality of life measures  
3 relating to patient information recorded on a substantially continuous basis or  
4 derived therefrom;  
5 the database module storing the quality of life measures set into the patient  
6 care record for the individual patient into the database; and  
7 the analyzer analyzing the quality of life measures in the physiological  
8 measures set relative to the other quality of life measures to determine a  
9 pathophysiology indicating an absence, an onset, a progression, a regression, and  
10 a status quo of congestive heart failure.

1 25. A system according to Claim 22, further comprising:  
2 the server system receiving a set of one or more baseline physiological  
3 measures relating to patient information recorded during an initial time period or  
4 derived therefrom;  
5 the database module storing the baseline physiological measures set into  
6 the patient care record for the individual patient into the database; and  
7 the analyzer analyzing the physiological measures in the physiological  
8 measures set relative to the baseline physiological measures to determine a

9 pathophysiology indicating an absence, an onset, a progression, a regression, and  
10 a status quo of congestive heart failure.

1 26. A system according to Claim 22, further comprising:  
2 a comparison module retrieving the other physiological measures from  
3 measures sets for at least one of an individual patient, a peer group, and a overall  
4 patient population.

1 27. A method for analyzing a patient status for congestive heart failure  
2 for use in automated patient care, comprising:  
3 receiving a set of one or more physiological measures relating to patient  
4 information recorded on a substantially continuous basis or derived therefrom;  
5 storing the physiological measures set into a patient care record for an  
6 individual patient into a database; and  
7 analyzing one or more of the physiological measures in the physiological  
8 measures set relative to one or more other physiological measures to determine a  
9 pathophysiology indicating an absence, an onset, a progression, a regression, and  
10 a status quo of congestive heart failure.

1 28. A method according to Claim 27, further comprising:  
2 analyzing the physiological measures in the physiological measures set  
3 relative to the other physiological measures to determine a pathophysiology  
4 indicating an absence, an onset, a progression, a regression, and a status quo of  
5 diseases other than congestive heart failure.

1 29. A method according to Claim 27, further comprising:  
2 receiving a set of one or more quality of life measures relating to patient  
3 information recorded on a substantially continuous basis or derived therefrom;  
4 storing the quality of life measures set into the patient care record for the  
5 individual patient into the database; and  
6 analyzing the quality of life measures in the physiological measures set  
7 relative to the other quality of life measures to determine a pathophysiology

8 indicating an absence, an onset, a progression, a regression, and a status quo of  
9 congestive heart failure.

1 30. A method according to Claim 27, further comprising:  
2 receiving a set of one or more baseline physiological measures relating to  
3 patient information recorded during an initial time period or derived therefrom;  
4 storing the baseline physiological measures set into the patient care record  
5 for the individual patient into the database; and  
6 analyzing the physiological measures in the physiological measures set  
7 relative to the baseline physiological measures to determine a pathophysiology  
8 indicating an absence, an onset, a progression, a regression, and a status quo of  
9 congestive heart failure.

1 31. A method according to Claim 27, further comprising:  
2 retrieving the other physiological measures from measures sets for at least  
3 one of an individual patient, a peer group, and a overall patient population.

1 32. A computer-readable storage medium for a device holding code for  
2 performing the method according to Claims 27, 28, 29, 30, or 31.